

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alcassedan, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,927	02/10/2006	Choon Kooi Chai	4702-40	5373
23117 7590 0629/2010 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			EXAMINER	
			NUTTER, NATHAN M	
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
		1796	•	
			MAIL DATE	DELIVERY MODE
			06/29/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/567,927 CHAI, CHOON KOOI Office Action Summary Examiner Art Unit Nathan M. Nutter 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 30 May 2010. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 23-44 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 23-44 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information-Displaceure-Statement(e) (FTO/SS/08)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Page 2

Application/Control Number: 10/567,927

Art Unit: 1796

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 30 May 2010 has been entered.

Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Art Unit: 1796

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 23-44 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Farley et al (US 2003/0215659).

The reference to Farley et al teaches the manufacture of a polymer blend comprising a copolymer of ethylene with an alpha-olefin "having a density of from 0.916 to 0.928 g/cm³" and a melt index of from "about 0.05 to 15 dg/min.." Note the Abstract and paragraph [0008]. The polymer may have two or more melting peaks at Table IV, including "between 30° and 150°." The molecular weight distribution is shown at paragraph [0010]. The second polymer is taught as being a low density polyethylene which may be a homopolymer at paragraph [0025]. The compositional limitations are shown at the Abstract. The reference shows use as an extrusion coating at the Abstract. The use of metallocene catalysts to produce the component (a) is shown at the Abstract. The choice of catalyst, in this product-by-process format, is inconsequential since the claims are drawn to a composition.

The reference teaches the production of a polyethylene/alpha-olefin LDPE blend, as herein contemplated. While the reference does not show the elastic modulus of the ethylene/alpha-olefin copolymer or the flow activation energy, the limitations do not serve to define over the teachings of the reference as to composition or constituents

Art Unit: 1796

employed. As such, the elastic modulus and flow activation energy would be expected from the composition as taught, unless shown otherwise. Nothing is recited in the claims that indicate a difference as to composition. It has been held in SmithKline Beecham
Corp., No. 04-1522 (Fed. Cir. February 24, 2006) that product-by-product claims are not claim limitations.

Once a reference teaching a product appearing to be substantially identical is made the basis of a rejection and the examiner presents evidence or reasoning tending to show inherency, the burden shifts to the applicant to show an unobvious difference. In re Fitzgerald, 619 F.2d 67, 70, 205 USPQ 594, 596 (CCPA 1980). In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433-34 (CCPA 1977). In re Schreiber, 128 F.3d 1473, 1478, 44 USPQ2d 1429, 1432 (Fed. Cir. 1997).

As such, the instant claims would be at least obvious, if not anticipated, by the teachings of Farley et al.

Claims 23-25, 28, 30 and 37-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Ohlsson (US 2004/0053022).

The reference to Ohlsson teaches the manufacture of a polymer blend comprising a copolymer of ethylene with an alpha-olefin having "a density of from 0.910 to 0.940 g/cm³" and a melt index of from "0.1 to 15 g/10 min.."

Note the Abstract and paragraph [0009]. The polymer may have two melting peaks at Table 2, including "between 30" and 150"." The molecular weight distribution is shown at paragraph [0009]. The second polymer is taught as

Art Unit: 1796

being a low density polyethylene which may be a homopolymer at paragraph [0173]. The compositional limitations are instantly envisaged. The reference shows use as an extrusion coating. Note paragraph [0190]. The use of metallocene catalysts to produce the component (a) is shown at paragraphs [0073]-[0153]. The choice of catalyst, in this product-by-process format, is inconsequential since the claims are drawn to a composition.

The reference teaches the production of a polyethylene/alpha-olefin LDPE blend, as herein contemplated. While the reference does not show the elastic modulus of the ethylene/alpha-olefin copolymer or the flow activation energy, the limitations do not serve to define over the teachings of the reference as to composition or constituents employed. As such, the elastic modulus and flow activation energy would be expected from the composition as taught, unless shown otherwise. Nothing is recited in the claims that indicate a difference as to composition. It has been held in SmithKline Beecham Corp. v. Apotex Corp., No. 04-1522 (Fed. Cir. February 24, 2006) that product-by-product claims are not claim limitations.

Once a reference teaching a product appearing to be substantially identical is made the basis of a rejection and the examiner presents evidence or reasoning tending to show inherency, the burden shifts to the applicant to show an unobvious difference. In re Fitzgerald, 619 F.2d 67, 70, 205 USPQ 594, 596 (CCPA 1980). In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433-34 (CCPA 1977). In re Schreiber, 128 F.3d 1473, 1478, 44 USPQ2d 1429, 1432 (Fed. Cir. 1997).

Art Unit: 1796

As such, the instant claims would be at least obvious, if not anticipated, by the teachings of Ohlsson.

Declaration of Chai

The Declaration of Chai of 30 May 2010 has been considered, but is not deemed to be convincing of patentability of the instant claims. The Declaration asserts patentability using the CDBI range of 55-70%. This range has not been established, nor would clear science allow the use of one point to extrapolate a range. One sample is clearly insufficient to indicate a trend or a range, and cannot be conclusive to show any parameter or characteristic other than that indicated by the point alone. Declarant's analysis of the reference is not based on the reference, as disclosed, but upon isolated teaches.

Response to Arguments

Applicant's arguments filed 30 May 2010 have been fully considered but they are not persuasive.

Arguments of record are maintained and incorporated below.

With regard to the rejection of claims 23-44 under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Farley et al (US 2003/0215659), applicants point out the reference does not teach the melt elastic modulus. However, the compositions otherwise are identically disclosed, and the burden becomes that of applicants to show a patentable difference thereover. Further,

Art Unit: 1796

applicants refer to paragraph [0144] stating the polymers of the reference are "without long chain branching." This is not accurate since that paragraph says "preferably linear polymers," and then teaches the same VLDPE to have a CDBI of 50 to 85% which would provide for branching. Further, the document teaches the addition of branched monomers at paragraphs [0025] and [0026]. Applicants then support their assumption the published application only employs "linear" polymers stating the reference "discloses that the long chain branching of the polymers should be reduced...(by the use of bisCp metallocenes." Even at paragraph [0152], relied upon by applicants, the reference refers to "reduced long chain branching." which is clearly indicative of branching. It is pointed out to applicants that a reference is taken for the entirety of its teachings, and not for isolated examples or even preferred embodiments. This passage actually reinforces the concept the Farley et al polymer is branched, or there would be no need to reduce the branching. Applicants' characterization of the catalyst of Farley et al is similarly skewed, and not accurate. Applicants then propose an assumption, without providing details. calculations or other reasoning that "(o)n analysis, a copolymer representative of component (a) of the present invention exhibits a melt flow ratio of 18." First, neither is this characteristic a part of any claim, but it fails to appear in the Specification, as originally filed. As such, the argument thereto is summarily dismissed as being based on matter not of patentable scope in the instant application. Further, applicants limit their assessment of the teachings of the reference to isolated examples. The reference is relied upon for the entirety of its teachings. Further, applicants' reasoning as to the melt elastic modulus of the composition of Farley et al is neither clear nor well-founded.

Art Unit: 1796

No calculations or other comparative evidence has been presented. Applicants' conclusion appears to be based upon speculation, and only using limited examples. No direct comparison has been presented. Nothing unexpected has been shown.

With regard to the rejection of claims 23-25, 28, 30 and 37-44 under 35

U.S.C. 102(e) as being anticipated by Ohlsson (US 2004/0053022), the comparison of melt flow ratios taught by the reference with the values measured from the copolymers claimed herein has simply not been shown. Applicants' reasoning is based on an isolated examples, and not upon the breadth of the teachings of the reference. The parameter, "melt flow rate of about 18" has no antecedent basis in either the claims or the Specification, as originally filed. Applicants provide no clear calculation as to how the values proffered were derived. No direct comparisons have been made. Nothing unexpected has been shown on the record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan M. Nutter whose telephone number is 571-272-1076. The examiner can normally be reached on 9:30 a.m.-6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/567,927 Page 9

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nathan M. Nutter/ Primary Examiner, Art Unit 1796

nmn

27 June 20100.